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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/657,252	09/09/2003	Katsumi Miyazaki	009683-480	4039	
21839	21839 7590 12/10/2004			EXAMINER	
BURNS DOANE SWECKER & MATHIS L L P			TERESINSKI, JOHN		
	POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404		ART UNIT	PAPER NUMBER	
			2858		
			DATE MAILED: 12/10/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/657,252	MIYAZAKI, KATSUMI			
		Examiner	Art Unit			
		John Teresinski	2858			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
·	Responsive to communication(s) filed on 16 December 2003 . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
5)□ 6)⊠ 7)⊠	4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 2 is/are rejected. 7) Claim(s) 3-6 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Applicat	ion Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	repted or b) \square objected to by the E drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority (under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	• •					
2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date <u>9/9/2003</u>	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,587,650 to Massie.

Regarding claim 1, Massie disclose a current supply circuit (220) supplying the power output node of a switching regulator (305) with a pulsed current continuously (column 3 lines 63-65, column 7 lines 59-65, Fig. 4 element 420) and a determination circuit determining from the potential of the power output node whether the power output node is grounded (column 4 lines 19-21 and 55-57).

Regarding claim 2, Massie disclose a transistor (341) having a first electrode receiving a power supply potential and a gate electrode receiving a clock signal/switched signal (column 5 lines 32-52), a resistor (343) having one electrode connected to a second electrode of the transistor (341) and a first diode (339) having an anode connected to the other electrode of the resistor and a cathode connected/electrically connected to the power output node (column 5 lines 32-52, Fig. 3).

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Allowable Subject Matter

Claims 3-6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowance:

Regarding claim 3:

The primary reason for the allowance of claim 3 is the inclusion of a flip-fop set in response to the potential detection circuit outputting the signal of the second logical level to output a signal indicating that the power output node is not grounded. It is these features found in the claim, as they are claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes this claim allowable over the prior art.

Claims 4-6 are allowable due to their dependency on claim 3.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following is cited to further show the state of the art with respect to ground fault protection methods and devices in general:

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U.S. Patent No. 6,680,583 to Noda et al. disclose a ground fault detection circuit (22) and

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a power switching device (23).

U.S. Patent No. 6,343,498 to Oba et al. disclose a fault detection device.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to John Teresinski whose telephone number is (571) 272-2235. The

examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, N. Le can be reached on (571) 272-2233. The fax phone number for the organization

where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

) (TL

December 8, 2004

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N. Le Supervisory Patent Examiner Technology Center 2800